

WHAT IS CLAIMED IS:

1. A process for supplying amino acids or their chemical derivatives in liquid form to ruminant livestock, the process comprising:
  - supplying a liquid;
  - supplying at least one amino acid;
  - producing a liquid mixture by mixing said liquid with said at least one amino acid; and

administering said liquid mixture to ruminant livestock in a controlled manner.
2. The process according to claim 1, wherein said step of supplying a liquid further comprises supplying a liquid selected from the group consisting of drinking water, milk replacers and liquid feed.
3. The process according to claim 1, wherein said at least one amino acid is selected from the group consisting of lysine, methionine, threonine and tryptophan.
4. The process according to claim 1, wherein said at least one amino acid is supplied in liquid form.

5. The process according to claim 4, wherein said at least one liquid amino acid is selected from the group consisting of lysine and methionine.

6. The process according to claim 1, wherein said step of producing a mixture further comprises mixing said at least one amino acid in a dosage ranging from about 0.05% to about 0.5% based on the liquid supplied.

7. The process according to claim 1, wherein said step of administering said mixture further comprises the following steps:

calculating the daily liquid consumption of the ruminant livestock;  
calculating the amount of amino acid to be supplied to the ruminant livestock;  
calculating the percentage of inclusion of each amino acid per liter of liquid based on the amino acid concentration; and  
titering the system of administration.

8. The process according to claim 7, wherein said daily liquid consumption calculation phase is performed using nutritional formulas.

9. The process according to claim 7, wherein said daily liquid consumption calculation phase is performed using a measurement device.

10. The process according to claim 9, wherein said measurement devices is a liter-counter.

11. A system for supplying amino acids or their chemical derivatives in liquid form to ruminant livestock, the system comprising:

    a line for supplying a liquid;  
    at least one container containing at least one amino acid to be supplied;  
    at least one device for measuring the flow of liquid connected to said line;  
    at least one amino acid feeding device connected to said at least one container and to said liquid supply line; and  
    at least one pump for injecting said amino acids into said liquid, wherein said pump is connected to said line.

12. The system of claim 11, wherein said pump is equipped with a gradient for regulating the flow in terms of the projected dosage for the livestock.

13. The system of claim 12, wherein said pump is activated by said measurement device.

14. The system of claim 11, further comprising at least one trough connected to said at least one pump.

15. The system of claim 11, further comprising at least one one-way valve connected to said line.

16. The system of claim 11, wherein said liquid is selected from the group consisting of drinking water, milk replacers and liquid feed.

17. The system according to claim 11, wherein said measurement device is selected from the group consisting of a flowmeter and a liter-counter.

18. The system according to claim 11, wherein said at least one amino acid is selected from the group consisting of lysine, methionine, threonine and tryptophan.

19. The system according to claim 11, wherein said at least one amino acid is supplied in liquid form.

20. The system according to claim 19, wherein said at least one liquid amino acid is selected from the group consisting of lysine and methionine.

21. The system according to claim 11, further comprising a means of calculation for performing and controlling the phase of administering the liquid mixture.

22. The system according to claim 11, wherein said at least one amino acid is supplied at a dosage ranging from about 0.05% to about 0.5% by volume of said liquid.